



SUBSTITUTE SEQUENCE LISTING

(1) GENERAL INFORMATION:

(i) APPLICANT: Sriram, Subramaniam
Nag, Bishwajit
Sharma, Somesh D.

(ii) TITLE OF INVENTION: Vaccination with Peptide of MHC Class II
Molecules for Treatment of Autoimmune Disease

(iii) NUMBER OF SEQUENCES: 4

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Townsend and Townsend and Crew LLP
(B) STREET: Two Embarcadero Center, 8th Floor
(C) CITY: San Francisco
(D) STATE: California
(E) COUNTRY: USA
(F) ZIP: 94111

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk
(B) COMPUTER: IBM PC compatible
(C) OPERATING SYSTEM: PC-DOS/MS-DOS
(D) SOFTWARE: PatentIn Release #1.0, Version #1.30

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: US 09/286,274
(B) FILING DATE: 05-APR-1999
(C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: US 07/992,942
(B) FILING DATE: 17-DEC-1992

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: US 08/338,553
(B) FILING DATE: 18-NOV-1994

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: US 08/485,617
(B) FILING DATE: 07-JUN-1995

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: Apple, Randolph T.
(B) REGISTRATION NUMBER: 36,429
(C) REFERENCE/DOCKET NUMBER: 14058-29-3

(ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: (415) 576-0200
(B) TELEFAX: (415) 576-0300

(2) INFORMATION FOR SEQ ID NO:1:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 18 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 1
- (D) OTHER INFORMATION: /product= "OTHER"
/note= "Xaa = N-acetyl-alanine"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 18
- (D) OTHER INFORMATION: /product= "OTHER"
/note= "Xaa = Theoninamide"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

Xaa	Glu	Tyr	Tyr	Asn	Lys	Gln	Tyr	Leu	Glu	Gln	Thr	Arg	Ala	Glu	Leu
1				5					10					15	
Asp Xaa															

(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 10 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

Tyr	Tyr	Asn	Lys	Gln	Tyr	Leu	Glu	Gln	Thr
1			5				10		

(2) INFORMATION FOR SEQ ID NO:3:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 1
- (D) OTHER INFORMATION: /product= "OTHER"
/note= "Xaa = N-acetyl-asparagine"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

Xaa Ala Glu Tyr Trp Asn Ser Gln Lys Asp Leu Leu Glu Gln Lys Arg
1 5 10 15

Ala Ala Val Asp
20

(2) INFORMATION FOR SEQ ID NO:4:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

Asp Ala Glu Tyr Trp Asn Ser Gln Lys Asp Leu Leu Glu Gln Lys Arg
1 5 10 15

Ala Ala Val Asp
20